Albrecht®

OPERATING MANUAL



30 Channels
Scanning receiver

AE 65 H

ALAN Electronics GmbH
Dovenkamp 11
D- 22952 Lütjensee
www.albrecht-online.de

AE 65 H
Programmable Hand-Held Scanner

Precautions

Before you use this scanner, please read and observe the following:

Earphone Warning!
Be sure to use only the recommended optional monaural earphone (EP009). You may also use a 32 Ω stereo headset. Use of an incorrect earphone or stereo headset may be potentially hazardous to your hearing. The output of the Phone jack is monaural, but you will hear it in both headphones of a stereo headset.
Set the volume to a comfortable audio level coming from the speaker before plugging in the monaural earphone or a stereo headset of the proper impedance (32 Ω). Otherwise you might experience some discomfort or possible hearing damage if the volume suddenly becomes too loud because of the volume control or squelch control setting. This may be particularly true of the type of earphone that is placed in the ear canal.

Warning!
uniden **does not** represent this unit to be waterproof. *To reduce the risk of fire or electrical shock,*
do not expose this unit to rain or moisture.

Important!
The installation, possession, or use of this scanning radio in a motor vehicle may be prohibited, regulated, or require a permit in certain states, cities, and/or local jurisdictions. Your local law enforcement officials should be able to provide you with information regarding the laws in your community.

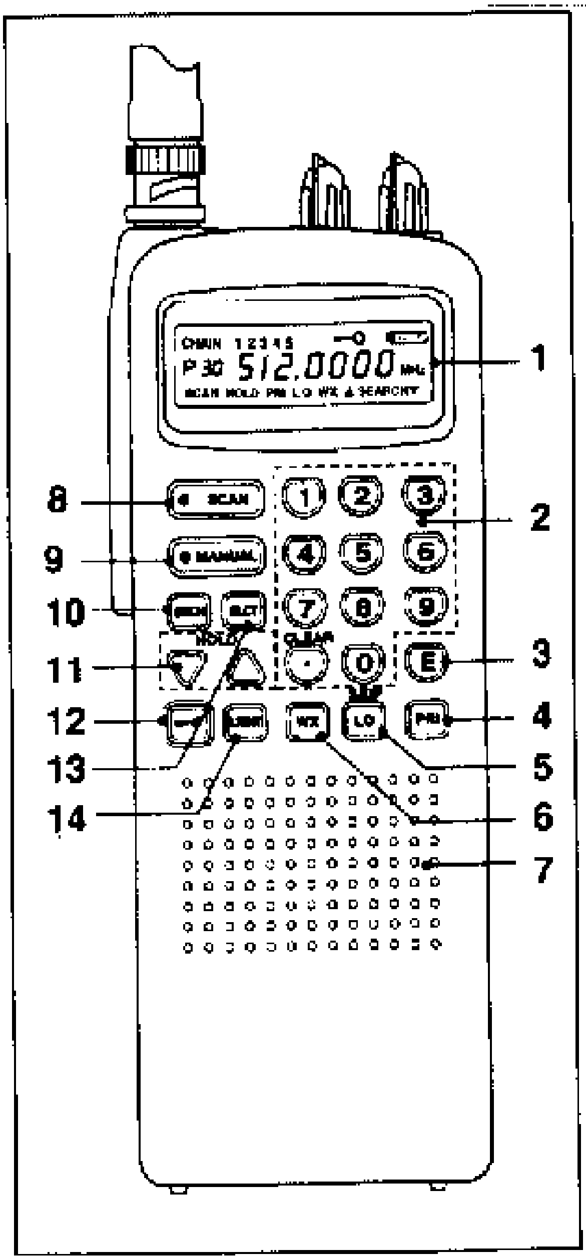
General Battery Warning!
Do not short-circuit any battery.
Do not discard batteries in a fire; they may explode.

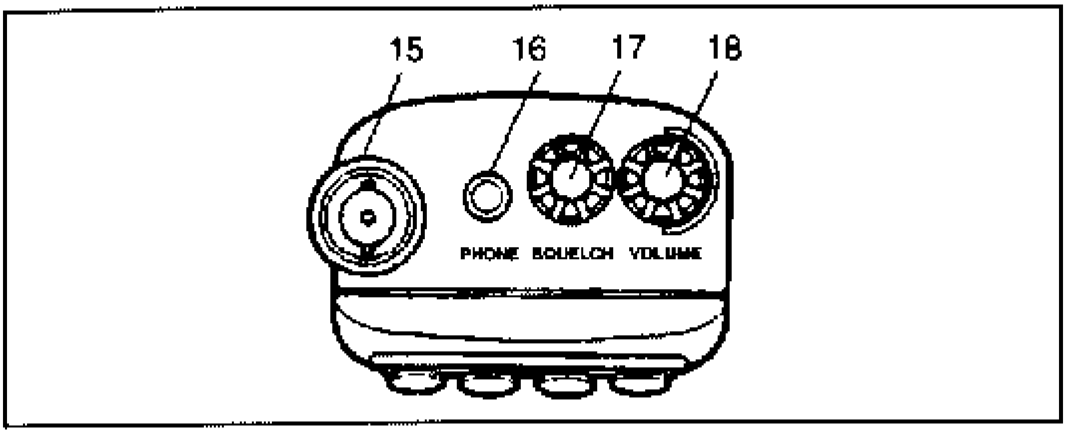
Alkaline Battery Warning!
Do not recharge alkaline batteries in the product. Doing so may cause serious damage to the product and will void the warranty. Uniden does not recommend using rechargeable alkaline batteries in this product.

Nickel-Cadmium Battery Warning!
Do not *charge nickel-cadmium batteries with any* charger other than the one supplied by uniden as an option. Using another charger may damage the batteries, or cause them to explode.

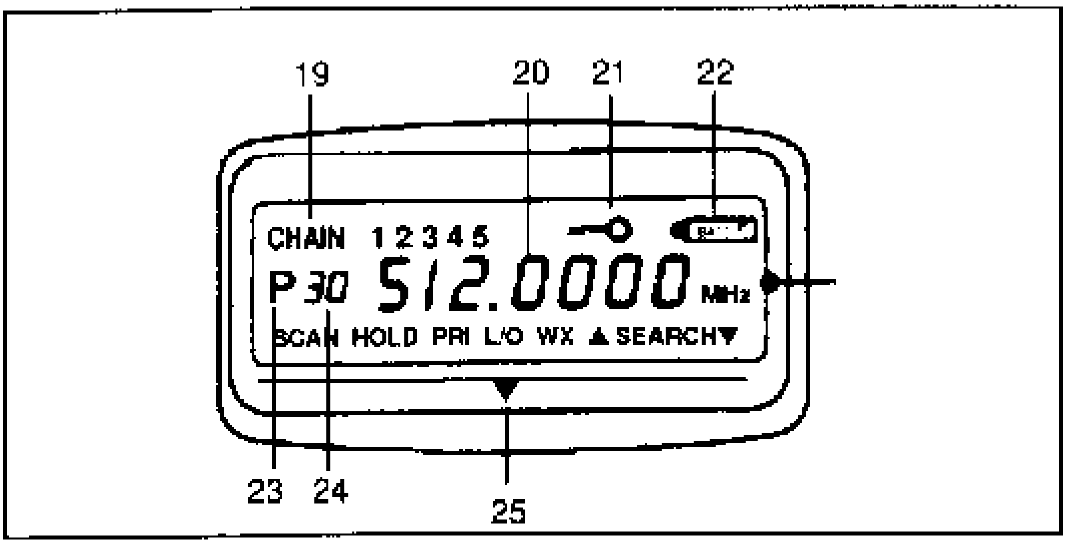
AE 65 H controls

1. Display
2. Numeric keypad
3. Enter
4. Priority
5. Lockout/Skip
6. Weather
   not for European versions
7. Speaker
8. Scan Mode
9. Manual Mode
10. Search
11. Search Hold
12. Keypad Lock
13. Select
14. Light





15. Antenna Connector
16. Phone Jack
17. Squelch Control
18. On/Off Volume Control



19. Chain Search Indicator
20. Frequency Display
21. Keypad Lock Indicator
22. Low Battery Indicator
23. Priority Channel Indicator
24. Channel Indicator
25. Function Indicators

Introduction

The AE 65 H Scanner is a sophisticated information radio that allows you to monitor 8 different frequency bands
It is a state-of-the art radio with scanning capabilities, and it can save up to 30 different frequencies in memory.

What is Scanning?
Unlike standard AM or FM radio stations, most two-way communications do not transmit continuously. The AE 65 H scans programmed channels until it finds an active frequency.

Scanning stops on an active frequency and remains on that channel as long as the transmission continues. When the transmission ends, the scanning cycle resumes until another transmission is received.

What is Chain Searching?
You can program five different personal search bands in your new scanner. You simply select a chain search location, define the search range, and begin your search. You can set your scanner to search up to all five chain search bands at once, or you can turn off those search bands you don't want. This gives you complete control of the search function.

Types of Communications
Monitor communications such as:
- Police and fire department (including rescue and paramedics)
- Business/industrial radio
- Motion picture and press relay
- Utilities
- Land transportation frequencies, such as trucking firms, buses, taxis, tow trucks, and railroads
- Marine and amateur (ham radio) bands
- And more in these bands:

Frequency Range	Transmission
66 - 88 MHz	VHF low band
137 - 144 MHz	military land mobile
144 - 146 MHz	2 meter amateur band
146 - 174 MHz	VHF hiah band
406 - 420 MHz	70 cm lo band
420 - 450 MHz	Amateurs, LPD, PMR446
450 - 470 MHz	UHF commercial radio
470 - 512 MHz	not used in Europe (TV audio)

Feature Highlights

- **30 Channels** - program one frequency into each channel. You must have at least one channel programmed to use the scan mode.
- **66 MHz - 512 MHz** - Search these frequency ranges with your scanner. (The frequency coverage is not totally continuous from 66 MHz to 512 MHz).
- **Chain Searching** - You can define five different personal search bands, and search up to all five chain locations at once.
- **Priority Channel Scanning** - Allows you to designate a priority channel which is monitored every two seconds when Priority Scanning is selected.
- **Manual Channel Access** - Go directly to any chan nel.
- **Memory Backup** - Frequencies programmed in channels are retained in memory. If power is completely disconnected, the frequencies are retained for one hour.
- **Preset Two-second-Delay** - Scanner waits two seconds after transmission stops before resuming scanning.
- **LCD Back-Light** - An orange LCD light remains on for 15 seconds when (Light) is pressed.

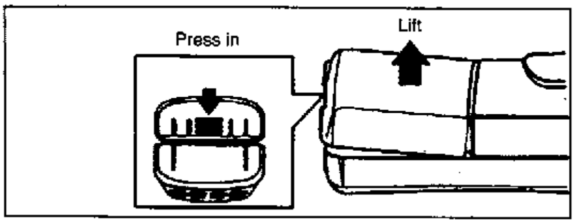
Setup

These are helpful guidelines when using your new scanner:

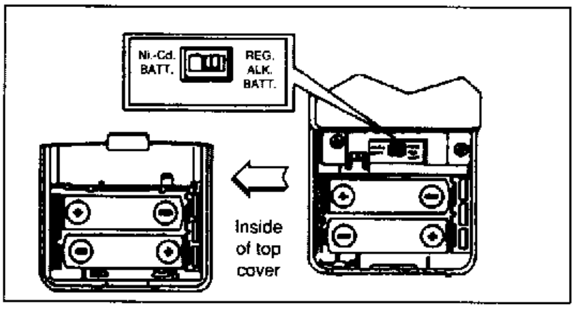
- If your scanner receives interference or electrical noise, move the scanner or its antenna away from the source.
- If you need to improve reception, use an optional antenna designed for multi-band coverage. (You can purchase this type of antenna at a local electronics store.)
- Use the included earphone or an optional stereo headset with proper impedance for private listening. Read the precautions on the inside front cover of this guide.

Installing the Batteries

1. Open the cover.

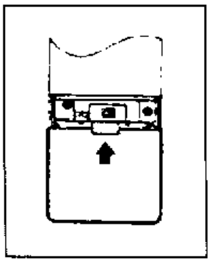


2. Insert batteries.



Note: If you are installing alkaline batteries, set the switch to **REG. ALK. BATT.** If installing nickel-cadmium batteries, set the switch to **Ni-Cd BATT.**

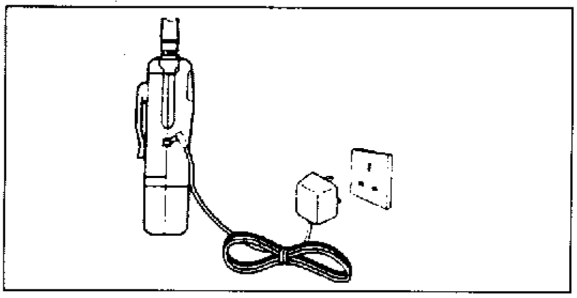
3. Replace cover and press down until it clicks into place.



> ***Warning:***
> Do not mix alkaline batteries with Ni-Cd batteries. Be sure to install four batteries of the same type.

AC Adapter/Charger

Use the AC adapter/charger to power the AE 65 H from an AC outlet.



Use only the optional AC adapter

Charging Warning

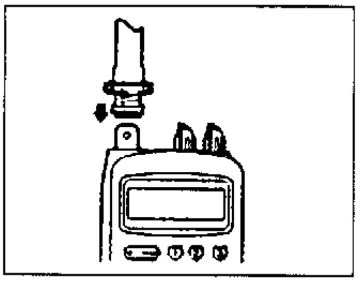
Do not charge alkaline batteries in this scanner. Doing so may cause serious damage to the product and void the warranty. Before attempting to recharge batteries, make sure you have installed four rechargeable nickel-cadmium batteries and the selector switch is set to **Ni.Cd BATT**

Adapter Safety Feature

The AC adapter included with this scanner may be equipped with a polarized line plug - a plug with one blade wider than the other. This plug will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, try reserving the plug.

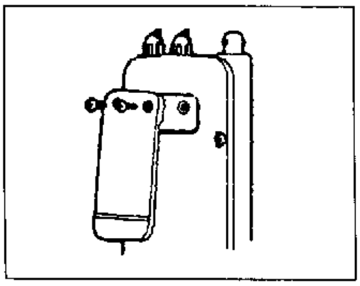
Flexible Antenna

Attach the flexible antenna to the BNC connector.



Belt Clip

Do not tighten the screws too tight. You can damage the case or clip.



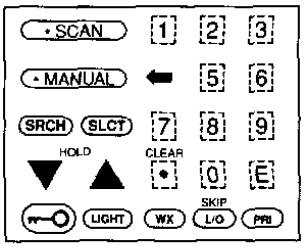
Note: Please look to the first pages showing the front panel and controls!

Basic Operation

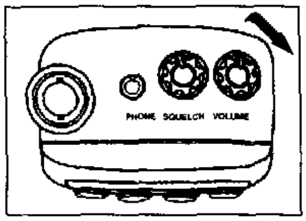
Note: Please look to the first pages showing the front panel and controls!

Setting the Squelch
To set the squelch, you must be in the manual mode. No signal should be present when adjusting squelch.

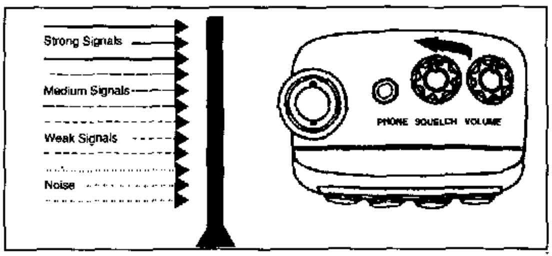
1. Press (• MANUAL) until you do not hear a signal.



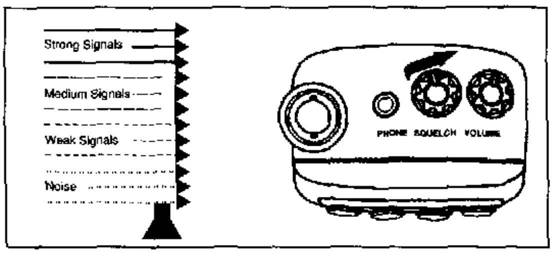
2. Adjust **VOLUME** to a comfortable listening level



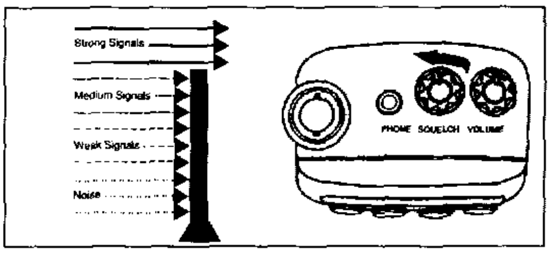
3. Think of the Squelch Control as a gate. Turn **SQUELCH** fully counter-clockwise. This raises the »Squelch-Gate« so high that no signals can get through.



4. Turn **SQUELCH** fully clockwise until you hear a hiss. This lowers the »Squelch-Gate« so that everything gets through - noise, weak signals, and strong signals.

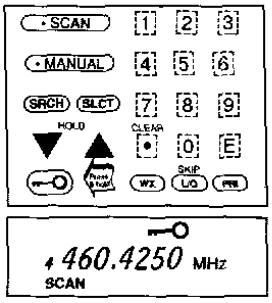


5. Turn **SQUELCH** back counter-clockwise just until the hiss stops. Now the »Squelch Gate« allows only strong signals through.

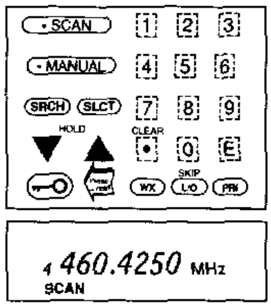


Keylock
Keylock prevents accidental key entries during scanning.

1. To lock the keypad, press and hold ⊸O until the key symbol appears.



2. To unlock the keypad, press and hold ⊸O until the key symbol disappears.

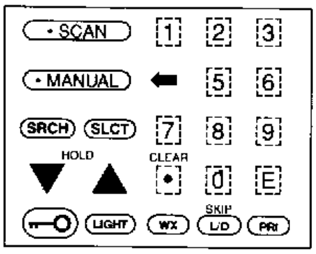


Programming

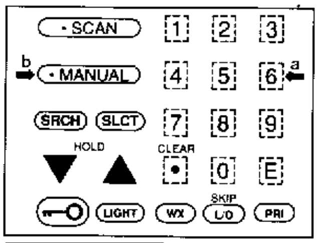
Before the AE 65 H can receive radio broadcasts, you must program a frequency into at least one channel. Before scanning, repeat this procedure for each channel you program.

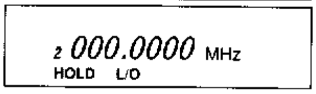
1. Select frequencies

2. Press (• MANUAL)

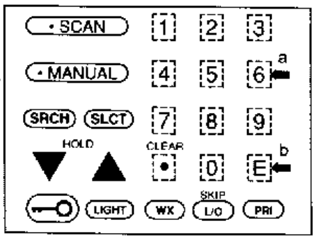


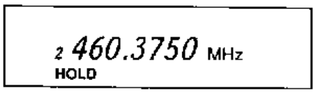
3. Select a channel.
   a) Enter the channel number.
   b) Then press (• MANUAL)





4. Enter the frequency.
   a) Enter the frequency number.
   b) Then press (E)





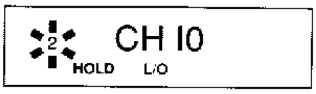
Note: To clear a mistake while entering the frequency, press (•) twice, and start over.

If the frequency entered is outside the frequency range of the scanner, a distinctive beep sounds. (See the table on page 5 or the band list on the back of the scanner).

Press (•) and go back to step 4.



Duplicate Frequency Alert
If you enter a frequency stored in another channel, you hear a beep and the other channel appears in the display.



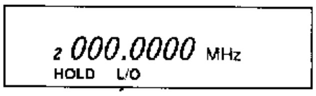
Press (•) to start again

or

Press (E) again to store the frequency in both channels.

Programming Tips

- Do no program a weather frequency into one of the channels, since weather channels transmit continuously. Use (WX) for weather information.
- Group similar frequencies into adjacent channels. For example, program police frequencies in channels 1 through 10 and fire/emergency into channels 11 through 20, and so on.
- Put the frequency that you listen to the most or the most important frequency into a priority channel.
- To quickly program a series of channels, start with the lowest number channel. For example, when you are programming five new frequencies into channels 4 through 8, start with channel 4. After you finish programming a channel, press (• MANUAL) or △ to go to the next higher channel.
- To erase the channel, press (•) and then press (E). Channels with no frequencies are automatically locked out.

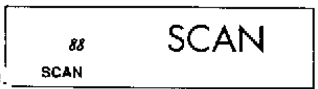


- Record channels and frequencies in some convenient place in case the scanner memory is lost.

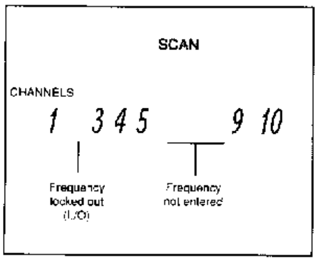
AE 65 H

Scanning

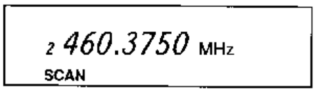
When you turn on the power. **AE 65 H** automatically starts in the scan mode.



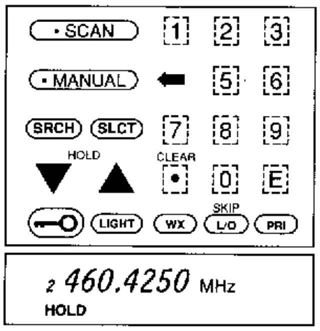
During normal scanning the scanner skips unprogrammed or locked out channels



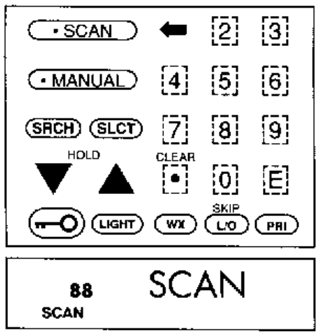
When a transmission is received, the scanner stops on that channel. When the transmission ends, scanning resumes automatically after two seconds.



To stop on a channel during scanning, press • MANUAL



To resume scanning press • SCAN

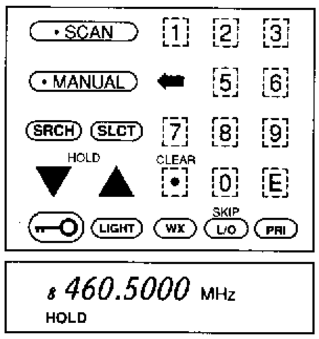


Channel Lockout

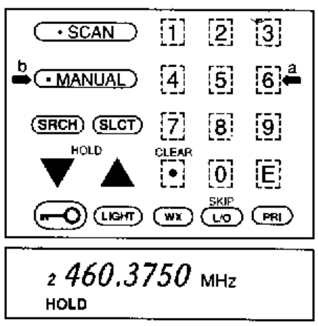
You can lockout any channel so it is not reviewed during normal scanning. You can restore the channel to scanning whenever you wish.

Lockout in Manual Mode

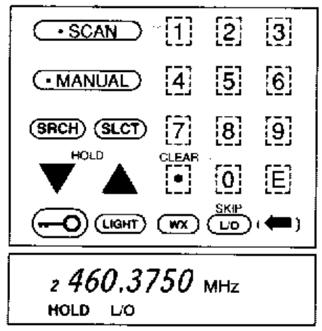
1. Press • MANUAL



2. Select a channel.
   a) Enter the channel number.
   b) Then press • MANUAL again.



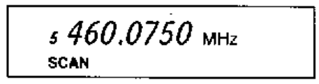
3. Press LO to lockout the channel.



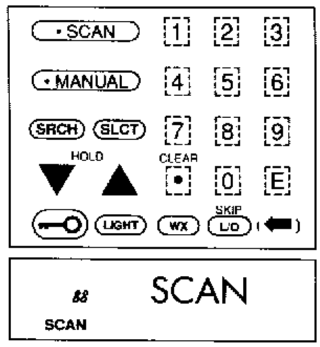
Locking a Channel While Scanning

If the scanner keeps stopping on a particular channel due to noise or too frequent transmissions, you may want to keep that channel from scanning.

1. Wait until the scanner stops at the channel.



2. Then press LO



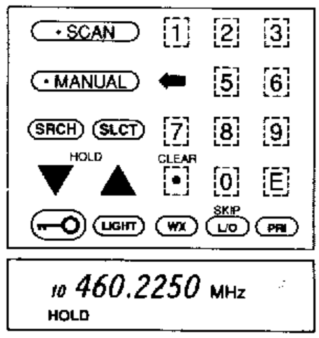
3. The scanner immediately resumes scanning because the locked out channel is no longer in the scanning sequence.

Lockout Tips

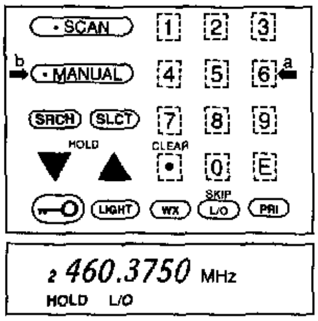
- To quickly lockout a series of channels, start with the lowest number channel. For example, if you are locking out channels 4, 7, 8, 12, and 15, start with channel 4. After selecting channel 4, press LO. Then press • MANUAL one or more times to step up to the next channel to be locked out.
- Record the locked-out channels in some convenient place so you can restore them.

Restore a Locked Out Channel

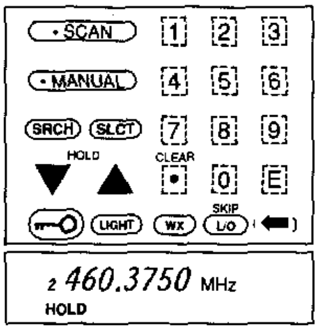
1. Press • MANUAL



2. Select a locked out channel.
   a) Enter the channel number.
   b) Then press (• MANUAL) again.



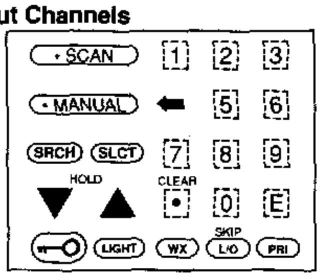
3. Press (L/O) to unlock the channel.



Restore All Locked-out Channels

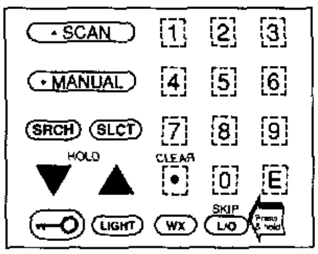
1. Press (• MANUAL)

Note: You must be in manual mode before restoring all locked-out channels.



2. Press and hold (L/O) for about two seconds.

You will hear two beeps when all the channels have been restored.

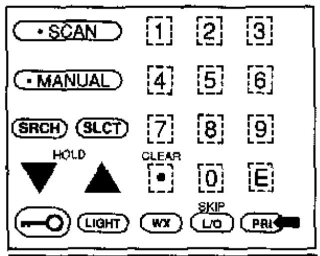


Priority Scan

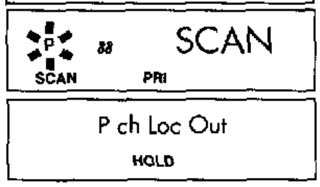
When priority scan is turned on, your scanner checks the priority channel every two seconds for activity. If a signal is present on the priority channel, your scanner monitors the channel until the transmission ends, then resumes normal scanning. You can designate any of the 30 available channels as your priority channel.

To activate priority scan (in either manual or scan mode):

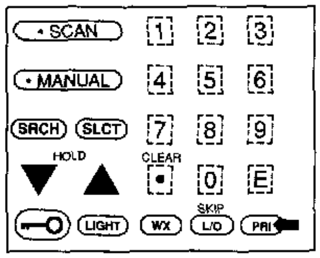
1. Press (PRI)



Note: If you have locked out the priority channel, this message appears when you select priority mode.



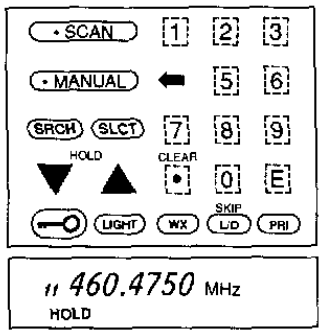
2. Press (PRI) again at anytime to deactivate priority scan.



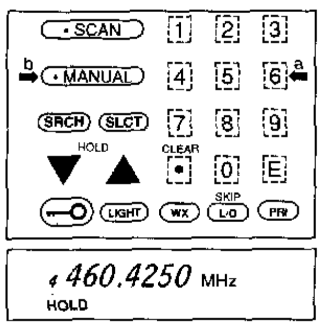
Changing the Priority Channel

You cannot eliminate the priority channel, but you can change it to any other of the 30 available channels.

1. Press (• MANUAL)

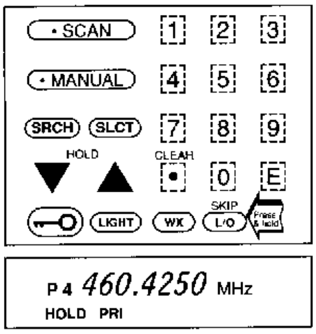


2. Select a new priority channel.
   a. Enter the channel number.
   b) Then press (• MANUAL) again.



3. Press and hold (PRI) for two seconds to designate this channel as your new priority channel.

Two beeps indicate that the priority channel is changed.



Chain Search

Use chain search to find active frequencies in your area. You can search up to all five personal bands or turn off those bands you don't want to hear. This gives you flexibility of searching for any channel between 29 and 512 MHz, as long as they are within the 8 frequency bands covered by the **AE 65 H**. See the table on page 5, the technical specifications on page 15, or the table on the back of the **AE 65 H**.

Setting a Search Range

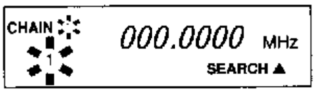
An error message displays when (SRCH) is pressed and you have not either specified a search range in at least one chain search band.



- OR -

If you attempt to turn off all personal chain search bands.

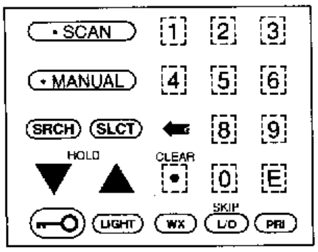
The **error** message turns off automatically and chain 1 is selected when all search locations are empty.



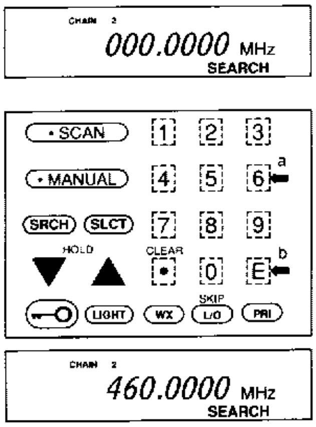
Press (• MANUAL) to return to normal scan, or press (SLCT) to select the band you want to program.

To program a frequency range into one of the five personal chain search bands, follow these steps:

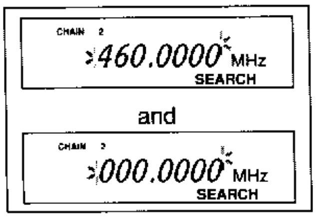
1. Press (SLCT) until the search location you want appears in the display.



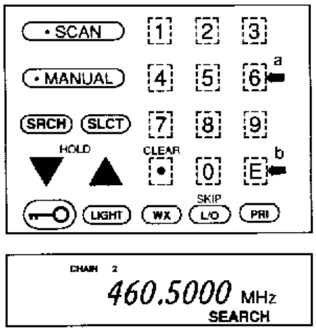
2. Enter lower limit of the search band.
   a) Enter the frequency number.
   b) Then press (E)



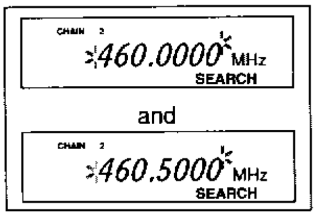
Note: The display alternates between the upper and lower ranges.



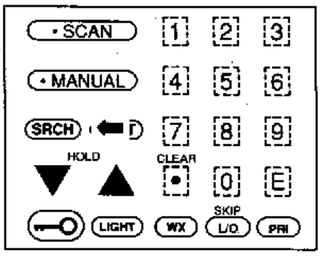
3. Enter upper limit of the search band.
   a) Enter the frequency number
   b) Then press (E)

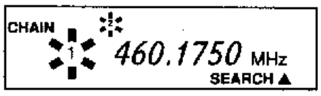


Note: The display alternates between the upper and lower ranges. If you program the wrong limit, press (0) and (E), then press (0) and (E) again to erase the error and reset the limits to zero. Then begin again.



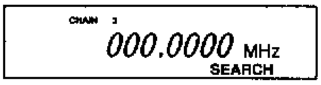
4. Either press (SRCH) to begin your search.





Note: Your scanner searches each selected personal chain search band. The display flashes the number of the band while it's scanned. Other bands which are programmed and selected are displayed but do not flash.

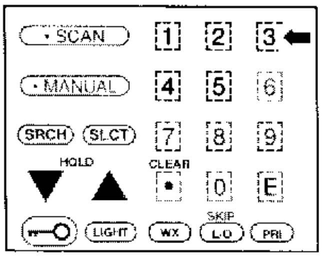
- OR -



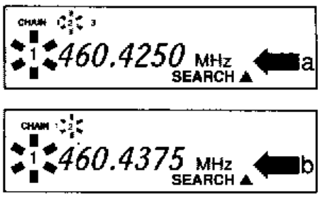
Press (SLCT) to move to the next chain location.

Note: You can press the chain search band number, followed by (SLCT), to access the location directly.

5. To turn off a chain search band during search scanning, press its location number.

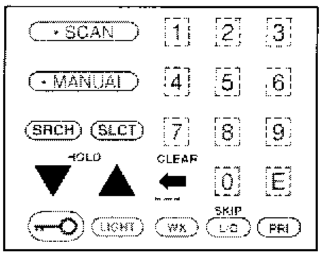


For example, (a) if chain search locations **1, 2** and **3** are selected, (b) press (3) to turn off band three so that it's not scanned during your search.



Search Hold Feature

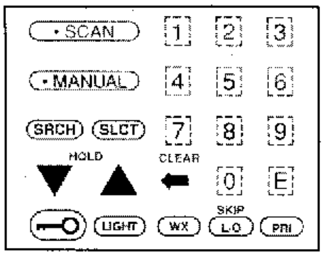
1. Press △ or ▽ at anytime to stop the search.



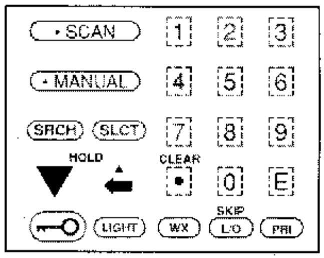
2. Press △ to move the next higher frequency

- OR -

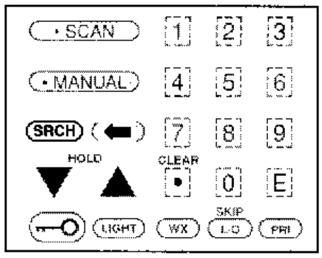
(See step 3)



3. Press ▽ to move down to the previous frequency.



4. Press (SRCH) to resume searching.

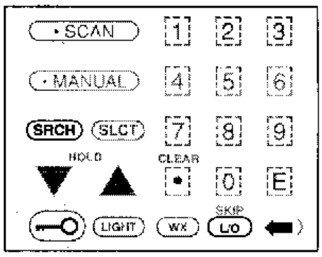


Note: The search continues toward either the upper or lower search limit, depending on which direction key (△ or ▽) was pressed last.

Channel Skip

If a particular channel continues to interrupt search scanning, it is possible to set your scanner to skip the frequency.

If your scanner stops while searching, press (SKIP) to lockout the frequency from the search range.



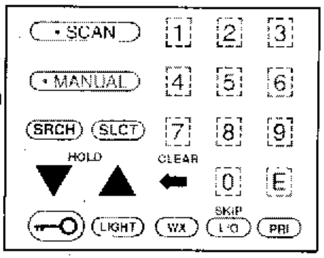
Note:

You can program 10 skip frequencies. The 11th skip frequency entered causes the 1st skip frequency to unlock.

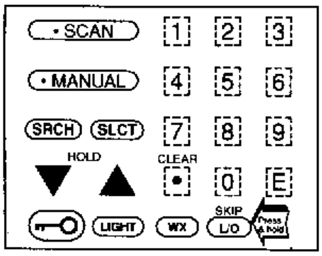
To unlock all skip frequencies at once, follow the next steps:

1. Press either △ or ▽ during a search.

   Note: You must be in search hold before restoring all skipped frequencies.



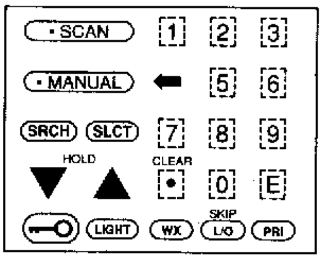
2. Press and hold SKIP for about two seconds.
   You will hear two beeps when all the channels have been restored.



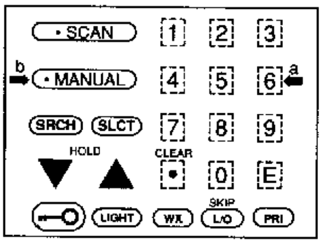
Storing Search Frequencies
You can quickly store any frequency you find during search.

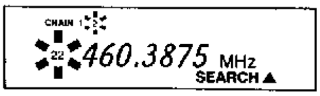
Caution: You must select the channel in which you will store the frequency before entering the search mode. Otherwise, you may erase a stored frequency that you want to keep.

1. Press • MANUAL

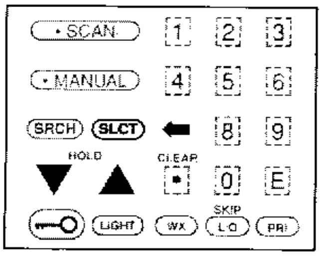


2. Select a channel.
   a) Enter the channel number.
   b) Then press • MANUAL again.



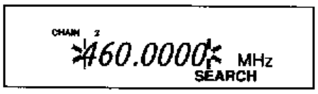


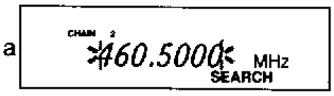
3. Select one or more of the personal search bands.



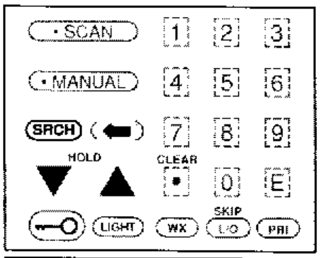
For example, select **CHAIN 2.**

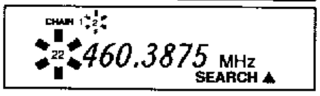
Note: These frequencies were used during »setting a search range,« on page 11.





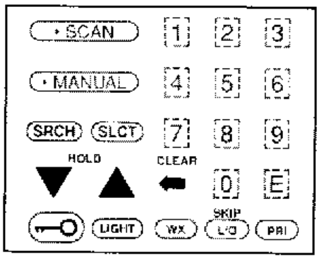
4. Press SRCH

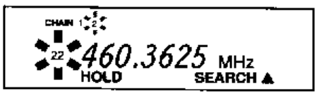




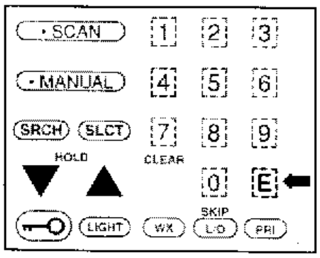
5. When the scanner stops at the frequency you want, press either △ or ▽

   Note: After this step you are in search hold mode. Press SRCH to resume scanning.





6. Press E to store the frequency in the channel you selected.



Note: After this step you are in manual mode.

22 460.3625 MHz
HOLD

Repeat steps 2 through 6 for all the search frequencies you want to store.

Note: Remember that there are only 30 channels available to store frequencies, whether you program them directly or while using the chain search mode.

Care and Maintenance

General Use

- Turn the scanner off before disconnecting the power or replacing the batteries.
- Always write down the programmed frequencies in the event of memory loss.
- If memory is lost, simply reprogram each channel. The display shows 000.0000 in all channels when there has been a memory loss.
- Always press each button firmly until you hear the entry tone for that key entry.

Location

- Do not use the scanner in high-moisture environments such as the kitchen or bathroom.
- Avoid placing the unit in direct sunlight or near heating elements or vents.
- If the scanner receives strong interference or electrical noise, move it or its antenna away from the source of the noise. If possible, a higher elevation, may provide better reception. Also try changing the height or angle of the antenna.
- Do not plug the scanner into an outlet controlled by a wall switch because long power interruptions may cause memory loss.

Cleaning

- Disconnect the power to the unit before cleaning.
- Clean the outside of the scanner with a mild detergent. To prevent scratches, **do not** use abrasive cleaners or solvents. Be careful not to rub the LCD window.
- Do not use excessive amounts of water.

Repairs

- Do not attempt any repair. The scanner contains no serviceable parts. Contact the uniden customer service center or take it to a qualified repair technician.

Birdies

- All radios can receive »birdies« (undesired signals). If your scanner stops during scan mode and no sound is heard, it may be receiving a birdie. Birdies are internally generated signals inherent in the electronics of the receiver.

Press (LO) to lockout the channel, and then press (• SCAN) to resume scanning.

Troubleshooting

If your **AE 65 H** is not performing properly, try the following steps.

Problem	Suggestion
Scanner won't work.	1. Check the connections at both ends of the AC adapter. 2. Turn on the wall switch of your room. You could be using an outlet controlled by the wall switch. 3. Move the AC adapter to another wall outlet or replace the batteries.
Improper reception.	1. Check the antenna connection or move and reposition the antenna. 2. Move the scanner. 3. You may be in a remote area which could require an optional multi-band antenna. Check with your dealer or local electronics store.
Scan won't stop.	1. Adjust squelch threshold - refer to page 7, »setting the squelch«. 2. Check the antenna connection. 3. Check to see if many of the channels are locked out. If so, the scanner has less chance of finding an active channel. 4. Review each channel's frequency to see if it is still stored in memory and is correct. 5. It's possible that none of the programmed frequencies are currently active.
Scan won't start.	1. Press the (• SCAN) key again. 2. Adjust the **SQUELCH** control. 3. Check to see if all channels are locked out.
Weather Scan won't work.	1. Adjust squelch threshold - refer to page 7, »setting the squelch«. 2. Check the antenna.

Specifications

Channels:	30
Search bands:	8 preprogrammed bands 5 programmable chain search bands
Frequency range:	66 - 88 MHz VHF low band 137 - 144 MHz military mobile radio 144 - 146 MHz 2 meter amateur band 146 - 174 MHz VHF high band above bands in 5 kHz steps 406 - 420 MHz LPD, PMR446, commercial 420 - 450 MHz Amateurs, commercial PMR radio 450 - 470 MHz UHF commercial PMR radio 470 - 512 MHz not used in Europe (TV) above bands in 12.5 kHz steps
Operating temperature:	- 20°C to + 60°C
Scan rate:	10 channels per second
Search rate:	10 steps per second
Scan delay:	2 seconds
Audio output:	245 mW nominal into 8 Ω internal speaker 41 mW nominal into 32 Ω stereo headphone 10 mW nominal into 64 Ω earphone
Power requirements:	12VDC using optional adapter or 4 AA alkaline or rechargeable nickel-cadmium batteries
Antenna:	Rubber antenna (included)
External jacks:	External earphone, DC 12 V power jack
Size:	2½ in. (W) x 1½ in. (D) x 7 in. (H)
Weight:	12 oz.

Features, specifications, and availability of optional accessories are all subject to change without notice.

Legal Issues

This scanning receiver corresponds to european EMC regulations 89/336 EEC and carries the CE mark. It is designed to be used in home and outdoor areas. Listening to public radio transmission (e.g. amateur radio, whether radio, broadcast stations) is allowed anywhere in Europe, while receiving of non-public transmissions, like private mobile radio, telephone calls, police radio etc. is restricted in almost all european countries. We recommend that You read and follow the local requirements carefully in the country, where You intend to use this scanner.

Informations about scanners and regulations can be found on our Web Site under

http://www.albrecht-online.de

www.albrecht-online.de
Service-Hotline: (+49) 4154 849 180
Service-Fax: (+49) 4154 849 288
e-mail: service@albrecht-online.de